BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Improvements to Roads, Drains and Asphlting to Roads in Vinayaka layout 1st Main, 1st Stage in ward no. 7, Byatarayanapura in Kodigehalli Sub Division**

Estimate Cost : **19.90 Lakhs**

P-Code : **1771 of 2012-13**

Estimate No : **AEE/KSD/E.NO/ 164 /2012-13**

ತಾಂತ್ರಿಕ ವರದಿ

ವಿಷಯ:– Improvements to Roads, Drains and Asphlting to Roads in Vinayaka layout 1st Main, 1st Stage in ward no. 7, Byatarayanapura in Kodigehalli Sub Division

Est.Cost.: 19.90 Lakhs

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ಈ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಯು 2012–13ನೇ ಸಾಲಿನ ಪಿ.ಒ.ಡಬ್ಲೂ. ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ವಾರ್ಡ್ ನಂ. 7ಕ್ಕೆ ನೀಡಿರುವ ರೂ. 3.00 ಕೋಟಿ ಅನುದಾನದ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ರೂ. 19.90 ಲಕ್ಷಕ್ಕೆ ಸೇರ್ಪಡೆಯಾಗಿ ವಾರ್ಡ್ ಮಟ್ಟದ ಸಾರ್ವಜನಿಕ ಕಾಮಗಾರಿ ಸ್ಥಾಯಿಸಮಿತಿಯಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ.

ಈ ಹಿನ್ನಲೆಯಲ್ಲಿ, ಸದರಿ ಈ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿ ಸ್ಥಳವನ್ನು ನಾವುಗಳು ಖುದ್ದಾಗಿ ನಗರಪಾಲಿಕೆ ಸದಸ್ಯರೊಂದಿಗೆ ಪರಿಶೀಲಿಸಿದ್ದು, ಸದರಿಯವರು ತಿಳಿಸಿರುವ ಹಾಗೂ ಅತಿ ಅವಶ್ಯಕ ಹಾಗೂ ತುರ್ತು ಎಂದು ಕಂಡು ಬಂದಿರುವ ಅಂಶಗಳನ್ನು ಸದರಿ ಅಂದಾಜಿನಲ್ಲಿ ಅನುವು ಮಾಡಲಾಗಿದೆ.

1. Removing BS Slab of drain and stacking.
2. Refixing stone slabs of drains and pointing in CM 1:3.
3. Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6)
4. Earth work excavation by manual means in Ordinary Soil
5. Compaction of original ground
6. Providing, laying, spreading and compacting graded stones aggregate to wet mix
7. Providing and applying primer coat with bitumen emulsion
8. Providing and laying semi dense bituminous concrete25 mm
9. Construction of Cross Drain -1 No.

ಈ ಮೇಲ್ಕಂಡ ಎಲ್ಲಾ ಅಂಶಗಳ ಅವಶ್ಯಕತೆಗೆ ಅನುಗುಣವಾಗಿ ಅಂದಾಜಿನಲ್ಲಿ ಅಳವಡಿಸಿಕೊಂಡು 2012–13ನೇ ಸಾಲಿನ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖಾ ದರಪಟ್ಟಿ ಬೆಂಗಳೂರು ವೃತ್ತದ ಎಸ್.ಆರ್. ದರದಲ್ಲಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ. 19.90 ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

ಕಿರಿಯ ಅಭಿಯಂತರರು	ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು	ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 7	ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ	ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- ***Improvements to Roads, Drains and Asphlting to Roads in Vinayaka layout 1st Main, 1st Stage in ward no. 7, Byatarayanapura in Kodigehalli Sub Division***

ESTIMATED COST 1990000.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	Removing BS Slab of drain and stacking.						Sqm		
	(P.No.28, I.No.5.32 of PW,P&IWTD S.R 2012-13								
	Main Roads 1st Main		1x2	410	1.65		1353		
							1353.00	44.47	**60174.00**
	Basic Rate Rs.	41.18							60168.0
	Add 8% A.W Rs.	3.29							
	Total Rate Rs.	**44.47**							
2	Refixing stone slabs of drains and pointing in CM 1:3.						Sqm		
	(P.No.28, I.No. 5.33 of PW,P&IWTD S.R 2012-13								
			Qty Same as I.No.1 (80%)				**1082.40**	63.00	**68187.00**
	Basic Rate Rs.	58.33							68191.20
	Add 8% A.W Rs.	4.67							
	Total Rate Rs.	**63.00**							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick)						Sqm		
	(P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2012-13								
			Qty Same as I.No.1 (20%)				**270.60**	315.36	**85336.00**
	Basic Rate Rs.	292.00							
	Add 8% A.W Rs.	23.36							
	Total Rate Rs.	**315.36**							
4	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3.						Cum		
	(P.No.150, I.No.19.1 of PW,P&IWTD S.R 2012-13								
	Main Roads 1st Main		1	410	8.00	0.20	656.00		
							656.00	58.32	**38258.00**
	Basic Rate Rs.	54.00							
	Add 8% A.W Rs.	4.32							
	Total Rate Rs.	**58.32**							
5	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (167. I.No. 19.64) SR 2012-13 (P. 158)						**Sqm**		
	Main Roads 1st Main		1	410	8.00		3280.00		
							3280.00	**3.78**	**12398.00**
	Basic Rate	**3.50**							
	Area Weightage @ 8%	**0.28**							
	Total	**3.78**							
6	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P. 167, Item No. 20.18) SR 12-13						**Cum**		
	Main Roads 1st Main		1	410	8.00	0.20	656.00		

	Basic Rate Rs.	981.00					**656.00**	**1059.48**	**695019.00**
	Add 8% A.W Rs.	78.48							
	Total Rate Rs.	**1059.48**							
7	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. (P. 172. Item No. 21.6) SR 12-13						**Sqm**		
	Main Roads 1st Main		1	410	8.00		3280.00		
	Basic Rate Rs.	36.70					**3280.00**	39.64	**130006.00**
	Add 8% A.W Rs.	2.94							130019.0
	Total Rate Rs.	**39.64**							
8	KSRRB M500-18. Providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications. with 80/100 grade bitumen using 40-60 HMP using mechanical paver (P. 174, Item No. 21.20.5) SR 12-13						**Cum**		
	Main Roads 1st Main		1	410	8.00	0.025	82.00		
							82.00	8992.08	**737351.00**
	Basic Rate Rs.	8326.00							
	Add 8% A.W Rs.	666.08							
	Total Rate Rs.	**8992.08**							
9	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2012-13						Cum		
	C.D.1 No		1	8.00	1.80	0.90	12.96		
							12.96	135.00	**1750.00**
	Basic Rate	125.00							
	Area Weightage @ 8%	10.00							
	Total	**135.00**							
10	KSRB 4-1.2: Providing and laying in position plain cement concrete of I mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2012-13						Cum		
	C.D.1 No		1	8.00	1.80	0.90	12.96		53523.76.
							12.96	4272.48	**55371.00**
	Basic Rate	3824.00							
	~~Add Differnce in Cost of Cement~~	~~132.00~~						4129.92	
		~~3956.00~~	3824.0						
	Area Weightage @ 8%	316.48	305.92						
	Total	**4272.48**	4129.92						

11	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P. 25, I.No. 5.6) SR-2012-13						Cum		
	C.D.1 No			1x2	8.00	0.60	0.60	5.76		
								5.76	2761.56	**15907.00**
		Basic Rate	2557.00							
		Area Weightage @ 8%	204.56							
		Total	**2761.56**							
12	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2 (P 16, I.No 4.28) SR-2012-13						Sqm		
	C.D.1No			1	8.00	0.60		4.80		
	Side			2	6.00	0.23		2.76		
				1	6.00	1.80		10.80		
								18.36	201.96	**3708.00**
		Basic Rate	187.00							
		Area Weightage @ 8%	14.96							
		Total	**201.96**							
13	KProviding and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) (P. 19, I.No. 4.49.1) SR-2012-13						Cum		
	C.D1 No			1	8.00	1.80	0.23	3.31		
								3.31	5639.76	**18679.00**
		Basic Rate	5222.00							
		Area Weightage @ 8%	417.76							
		Total	**5639.76**							
14	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 19, I.No. 4.46) SR-2012-13						Qtl		
				1	8.00	1.80	0.23	3.31		
								3.31		
	80Kg/Cum							**264.96**		
								2.65	7323.48	**19407.00**
		Basic Rate	6781.00							
		Area Weightage @ 8%	542.48							
		Total	**7323.48**							
15	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.119.I.No. 15.3) SR-2012-13 (P-120)						Sqm		
	C.D.1 No			1	8.00		0.60	4.80		
								4.80	71.60	**344.00**
		Basic Rate	66.30							

	Area Weightage @ 8%	5.30					
	Total	**71.60**					
16	Load for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)					Cum	47697.76.
	Basic rate for haulage of materials as per item no.17.4 page 142) Rs. 2.00						
	Average weight of earth 1.28		Qty vide Item No.4	--	**656.00**	72.71	**47695.00**
	Basic Tate Lead Charges upto 2.00 Kms	62.20					
	2x1.28x2 =	5.12					
	Loading and unloading	67.32					
	Average Weight of earth 1.28 tone/kg for 6x1.20x2.00=12.00	5.39					
		72.71					
17	Miscelleneous & Rounding off						410.00
						Toatl Rs.	**1990000.00**

(Rupees:- Nineteen Lakhs Ninety Thousand Only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2012-13
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

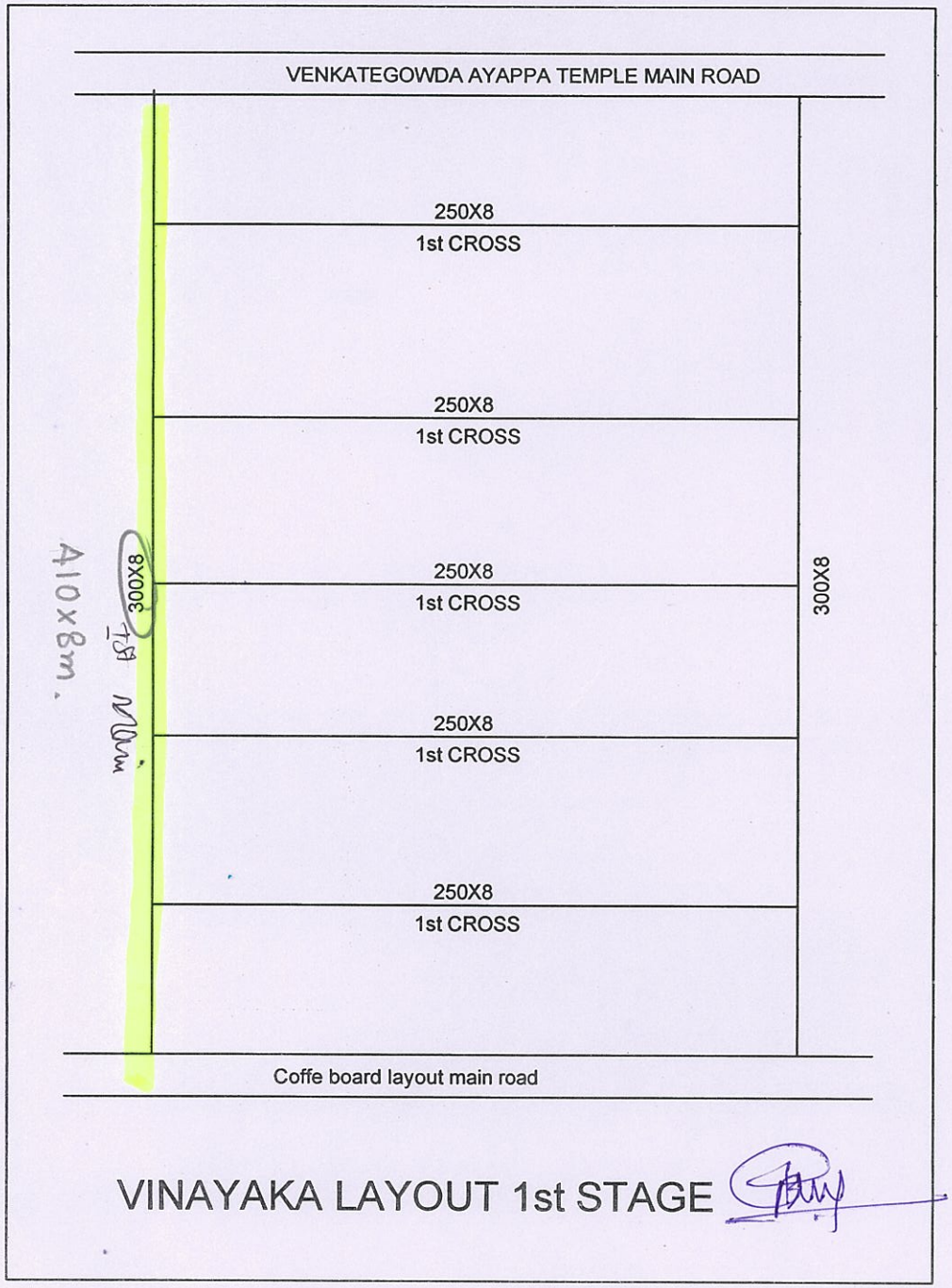
Technical sanction for Rs. 19.90 lakh
Nineteen lakhs ninety thousand
only
P025 - 2012-13
P.1771
registered as EE No: 298 /12-13 Subject to conditions contained enclosed memo.
No: 298 /12-13 Dt. 10.1.13

AE/JE

EE (BTP. Div.)

ADMINISTRATIVELY SANCTIONED FOR Rs.
Rupees Nineteen lakhs ninety thousand only
Under P025 - 2012-13
P 1771
Registered as EE ( ) No. 39
Subject to conditions contained in enclosed memo EE ( ) No. 702 /91
Dt. 7.1.13
Estimate A/Sanctioned
No. 707/12-13
dated 7.1.13
Rs. 19.90 lakh

7/1/13
Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

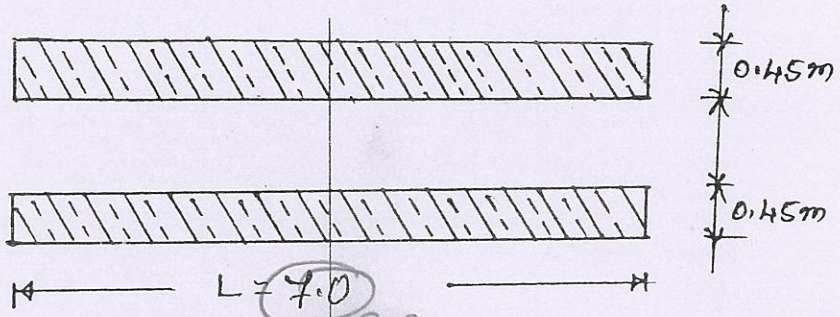


ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೂಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು – 560092

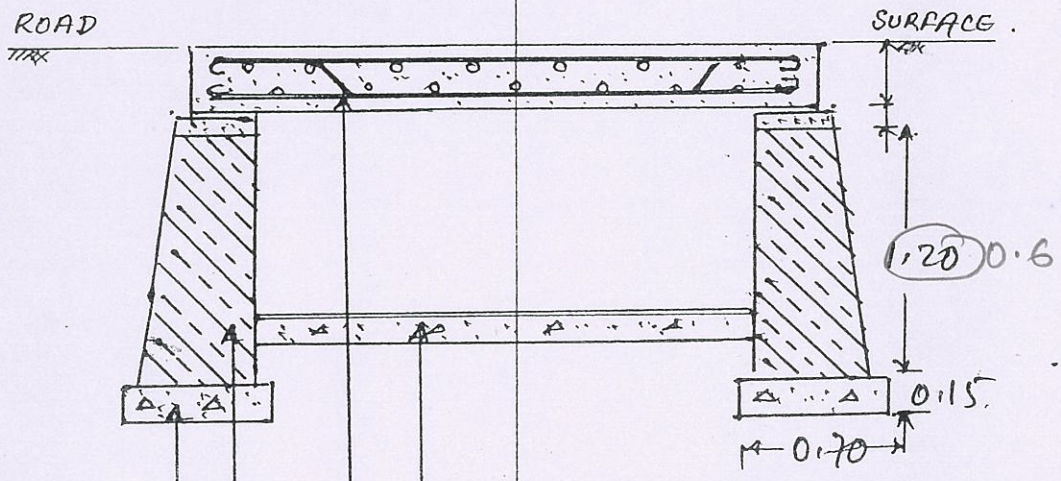
NAME OF WORKS. CONSTRUCTION OF SSM CULVERTS @ Roads &

NOT-TO-SCALE

All dimensions are in Meters.



PLAN



→ CC BED SLOPE CONCRETE 10CMS THICK.

→ RCC DUCK SLAB CMS THICK.

→ SSM SIDE WALLS.

→ CC BED FOR BODY WALL 15CMS THICK.

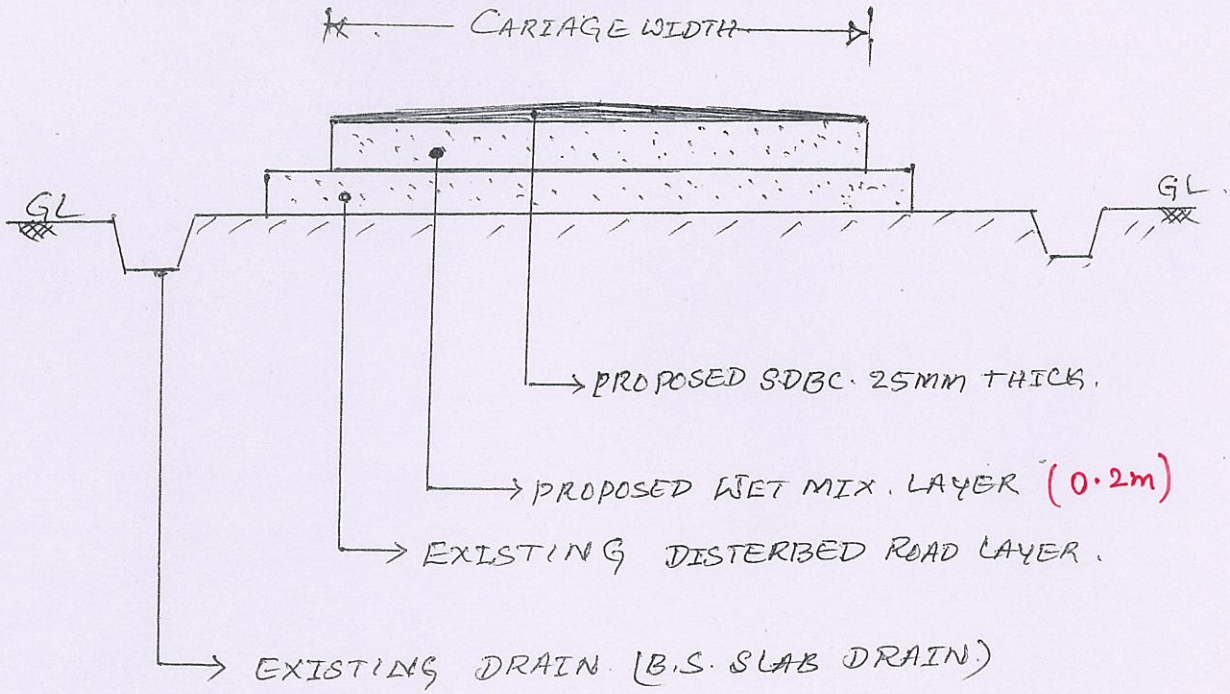
SECTION.

4.2.21

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು – 560092

NAME OF WORKS: IMPROVEMENTS TO ROADS AND DRAIN AND Asphalting in Vinaya-Ka layout 1st main, 1st Stage in Ward no. 7, Byatarayanapura

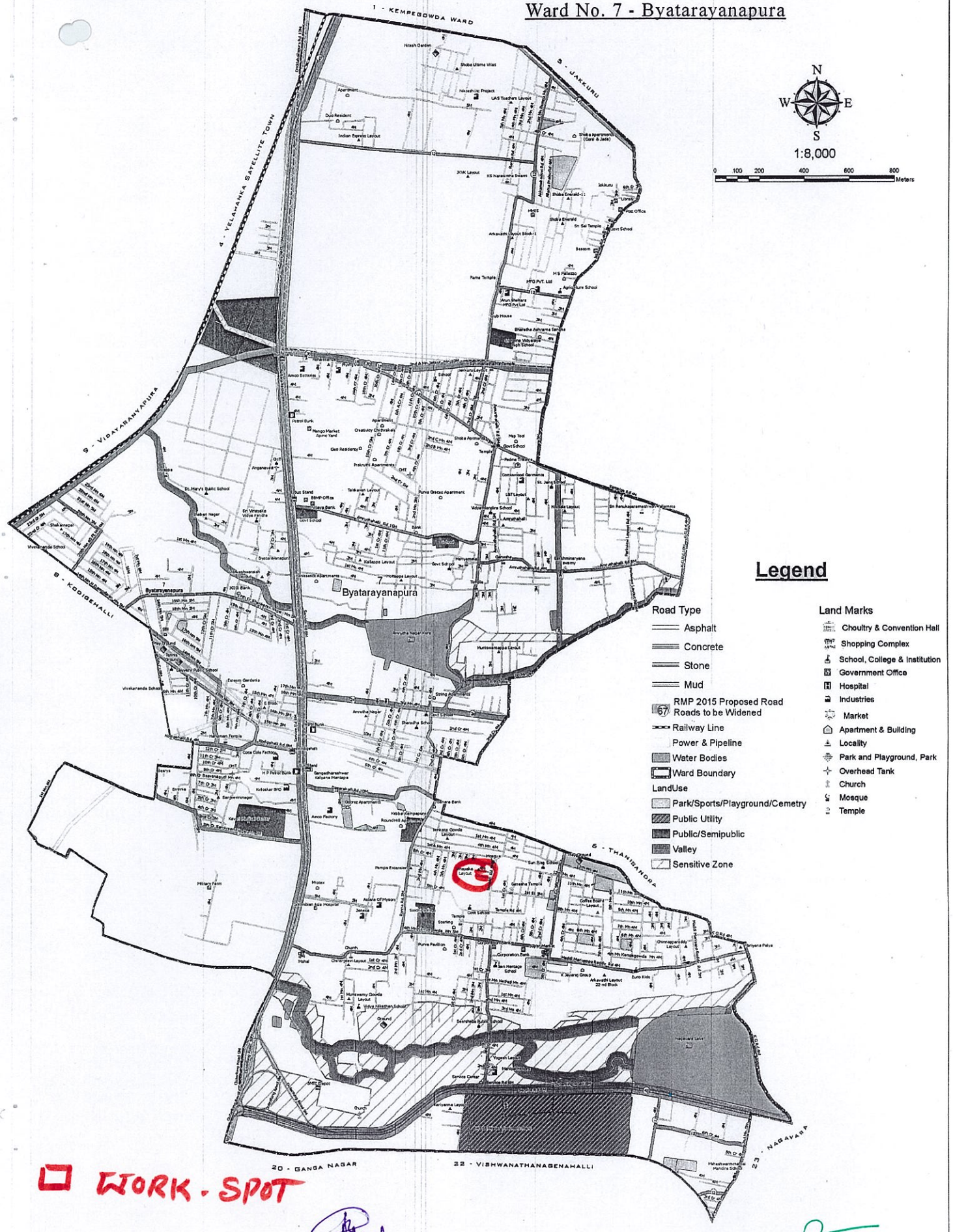
ROAD CROSS SECTIONAL DETAILS



BRUHATH BANGALORE MAHANAGAR PALIKE

Yelahanka Zone - Byatarayanapura Sub-division

Ward No. 7 - Byatarayanapura



Legend

Road Type
- Asphalt
- Concrete
- Stone
- Mud
- RMP 2015 Proposed Road (67) Roads to be Widened
- Railway Line
- Power & Pipeline
- Water Bodies
- Ward Boundary

LandUse
- Park/Sports/Playground/Cemetry
- Public Utility
- Public/Semipublic
- Valley
- Sensitive Zone

Land Marks
- Choultry & Convention Hall
- Shopping Complex
- School, College & Institution
- Government Office
- Hospital
- Industries
- Market
- Apartment & Building
- Locality
- Park and Playground, Park
- Overhead Tank
- Church
- Mosque
- Temple

WORK - SPOT

Mapped by :

SKYGROUP & CURIPe
GIS Consultants & Services
Mob no : +91-9880435939
web : www.skygroup.co.in

AREA: 9.60 Sq Kms

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ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು - 560092